

## SEQUENCE LISTING

<110> Cano, Carlos Antonio Durante Nieto, Enrique Gerardo Guillen Acosta, Anabel Alvarez Munoz, Luis Emilio Carpio Vazquez, Diogenes Quintana Rodriguez, Carmen Elena Gomez Rodriguez Rodriguez, Recardo de la Caridad Siva Galvez, Consuelo Nazabal Angulo, Maria de Jesus Leal Dunn, Alejandro Miguel Martin

<120> System for the Expression of Heterologous Antigens as Fusion Proteins

<130> LEXSA P-13DIV2

<140> 09/612,925

<141> 2000-07-10

<150> 08/930,917

<151> 1997-09-16

<150> CU97/00001

<151> 1997-01-17

<160> 21

<170> PatentIn version 3.1

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<211> 47

<212> PRT

<213> Neisseria meningitidis

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Gly Gly His Glu Asn Val Asp Ile Ile Ala Val Glu Val Asn Val Gly 20 25 30

Asp Thr Ile Ala Val Asp Asp Thr Leu Ile Thr Leu Glu Thr Asp 35 40 45

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<211> 18

<212> PRT

<213> Neisseria meningitidis

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Thr Thr Cys Cys Ala Thr Gly Gly Thr Ala Gly Ala Thr Ala Ala Ala

Cys Ala Thr Thr Gly Gly Cys Gly Gly Ala Cys Ala Cys Gly Ala Ala 50 55 60

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Cys Gly Gly Thr Thr Gly Ala Ala Gly Thr Ala Ala Ala Cys Gly Thr 85 90 95

Gly Gly Gly Cys Gly Ala Cys Ala Cys Thr Ala Thr Thr Gly Cys Thr 100 105 110

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Gly Gly His Glu Asn Val Asp Ile Ile Ala Val Glu Val Asn Val Gly 20 25 30

Asp Thr Ile Ala Val Asp Asp Thr Leu Ile Thr Leu Asp Leu Glu 35 40 45

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His Leu Leu Asp Leu Gln Ile Phe Leu Ser Arg Gly Ile Arg Ile 20 25 30

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Ser Thr Pro Ile Gly Leu Gly Gly Ala Leu Tyr Thr Thr Ala Gly Gly 50 60

Gly Ala Arg Lys Ser Ile Thr Lys Gly Pro Gly Arg Val Ile Tyr Ala 65 70 75 80

Thr Ala Gly Gly Ala Arg Lys Arg Ile His Ile Gly Pro Gly Arg 85 90 95

Ala Phe Tyr Thr Thr Ala Gly Gly Gly Ala Arg Lys Arg Ile Thr Met
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Asp Thr Ile Ala Val Asp Asp Thr Leu Ile Thr Leu Asp Leu Asp Ser

Arg Gly Ile Arg Ile Gly Pro Gly Arg Ala Ile Leu Ala Thr Ala Gly 50 55 60

Gly Gly Ala Arg Gln Ser Thr Pro Ile Gly Leu Gly Gly Ala Leu Tyr 65 70 75 80

Thr Thr Ala Gly Gly Ala Arg Lys Ser Ile Thr Lys Gly Pro Gly 85 90 95

Arg Val Ile Tyr Ala Thr Ala Gly Gly Gly Ala Arg Lys Arg Ile His 100 105 110

Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Ala Gly Gly Gly Ala Arg 115 120 125

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Thr Ile

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Gly Gly His Glu Asn Val Asp Ile Ile Ala Val Glu Val Asn Val Gly 20 25 30

Asp Thr Ile Ala Val Asp Asp Thr Leu Ile Thr Leu Asp Leu Asp Ser 35 40 45

Arg Gly Ile Arg Ile Gly Pro Gly Arg Ala Ile Leu Ala Thr Ala Gly 50 55 60

ackslash Gly Gly Ala Arg Gln Ser Thr Pro Ile Gly Leu Gly Gln Ala Leu Tyr That Thr Ala Gly Gly Gly Ala Arg Lys Ser Ile Thr Lys Gly Pro Gly Arg Val lle Tyr Ala Thr Ala Gly Gly Ala Arg Lys Arg Ile His 100 Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Ala Gly Gly Ala Arg 115 120 Lys Arg Ile Tha Met Gly Pro Gly Arg Val Tyr Tyr Thr Ala Gly 130 135 Gly Gly Ala Arg Gln Arg Thr Ser Ile Gly Gln Gly Gln Ala Leu Tyr 160 Thr Thr Ala Gly Gly Gly Ala Thr Ser Ile Thr Ile Gly Pro Gly Gln 165 175 Val Phe Tyr Arg Thr Gly Ala Gly Gly Gly Ala Ser Ile Arg Ile Gln 180 185 Arg Gly Pro Gly Arg Ala Phe Val Thr Ile 200 <210> 21 <211> 368 <212> DNA Human immunodeficiency virus type 1 <213> <400> 21 tctagactcg agaggcattc gtatcggccc aggtcgcgca attttagcaa cagctggcgg 60 tggcgcacgt caatctaccc ctattggttt aggtcaggct ctgtatacga ctgccggcgg 120 tggtgcgcgc aaaagtatca ccaagggtcc aggccgcgtc atttacgcca ccgcgggcgg 180 cggtgcccgt aagcgtatcc acattggccc aggccgtgca ttctatacta cagcaggtgg 240 tggcgcacgt aaacgcatca ctatgggtcc tggtcgcgtc tattacacga ccgctggcgg 300 cggtgctagc attcgcatcc aacgcggccc tggtcgtgca tttgtgacca tatgataacg 360 cgggatcc 368

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